ATTACHMENT A AGRIUM KNO FACILITY CONTINUOUS RELEASE-EMERGENCY RESPONSE NOTIFICATION SYSTEM REPORT

- Agri		Attachment	TO LOT -	- ENV-077-02		
SECTION		L INFORMATION	CR-FRN9	S Number: 44607		
BECTION	SZOZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ					
Date of Initial Release: Date of Initial Call to NRC: 10/23/90						
Type of Rep	Type of Report: Indicate below the type of report you are submitting.					
	•	First Anniversary	Written Noti	fication Written Notification		
Initial W	ritten Notification	Follow-up	X of a Change			
		Report	Initial Notifi			
Signed Statement: I contify that the harandous substances releases described having a firm						
Signed Statement: I certify that the hazardous substances releases described herein are continuous and stable in quantity and rate under the definitions in 40 CFR 302.8(a) or 355.4(a)(2)(iii) and that all submitted information is						
accurate and current to the best of my knowledge.						
	M. L. Nugent, Plant Manager					
·	Name and Position					
8	8/13/79 ml/vgent					
·	Date		<u> </u>	ig) nature		
Part A. Faci	lity or Vessel	<u>Information</u>				
Name of Facility or Vessel Alaska Nitrogen Products LLC						
Kenai Plant						
Person	37 675					
in Charge of Facility	cility					
dr Vessel	Telephone No. (907) 776-8121 Alternate Telephone No. () None					
Facility				lephone No. () None		
Address or	Street Mile 21	Spur Highway	County	y Kenai Peninsula Borough		
Vessel			•	_		
Port of Registration	City Kenai		State 2	AK Zip Code 99611		
	street Number	for Facility 092876390				
Facility/Vosco	T ALL T	D. N. CO N.C. CO	G - 00			
Facility/Vessel Location		Deg N <u>60</u> Min <u>40</u> Deg W <u>151</u> Min 22	Sec <u>22</u> Sec <u>36</u>	Vessel LORAN Coordinates		
•			<u> </u>			
Part B. Population Information						
Population	Choose the range that describes the population density within a one-mile radius of your facility or vessel					
Density	(Indicate by placing an "X" in the appropriate blank below.) 101 - 500 persons more than 1000 persons 51 - 100 persons 501 - 1000 persons					
•	51	- 100 persons	501 - 1000 persons	•		
Sensitive Populations		sitive Populations or Ecosyste		Distance and direction from facility		
ind	(e.g., schools,	hospitals, wetlands, wildlife p	oreserves, etc.)			
Ecosystems						
Within one	NONE					
Mile Radius	<u> </u>			<u> </u>		

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SECTION	H:	SOURCE
		INFORMATION

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чесь	essary.
Na	me of Source: Plant #2 Prill Tower, P-406
1.	Indicate whether the release from this source is either:
	continuous without interruption X OR routine, anticipated, intermittent
2.	Identify the activity(ies) that results in the release from this source (e.g., batch process, filling of a storage tank). If malfunction, describe the malfunction and explain why the release from the malfunction should be considered continuous and stable in quantity and rate.*
	Urea prill production.
`	
	Ω
	Arthur Site
3.	Identify below how you established the pattern of release and calculated release estimates.
	X Past release data Knowledge of the facility/vessel's X Engineering estimate operations and release history
	AP-42 test Best professional judgment Other (explain)
	

^{*} Note that unanticipated events, such as spills, pipe ruptures, equipment failures, emergency shutdowns, or accidents, do not qualify for reduced reporting under CERCLA section 103(f)(2). Unanticipated events are not incidental to normal operations and, by definition, are not continuous or anticipated, and are not sufficiently predictable or regular to be considered stable in quantity and rate.

SOURCE

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(continued)

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Name of Source: Plant #2 Prill Tower, P-406
Part B: Specific Information on the Source For the source identified above, provide the following information. Please provide a SEPARATE sheet for EACH source. Photocopy this page if necessary. AFFECTED MEDIUM. Identify the environmental medium (i.e., air, surface water, soil, or ground water) that is affected by the release from this source. If your source releases hazardous substances to more than one medium (e.g., a wastepile releasing to air and ground water), treat the release to EACH medium as a separate source and complete Section II, Parts A, B, and C, of this format for EACH medium affected.
 AIR X (stack X or area) If the medium affected is air, please also specify whether the source is a stack or a ground-based area source. If identified source is a stack, indicate stack height: 150 feet or meters; OR If identified source is an area source (e.g., waste pile, landfill, valves, tank vents, pump seals, fugitive emissions), indicate surface area: square feet or square meters.
SURFACE WATER, lake, or other) If the release affects any surface water body, give the name of the water body.
 If the release affects a stream, give the stream order or average flow rate, in cubic feet per second. stream order: or average flow rate: cubic feet/second; OR If the release affects a lake, give the surface area of the lake in acres and the average depth in meters. surface area of lake: acres and average depth of lake: meters.
O SOIL OR GROUND WATER If the release is on or under ground, indicate the distance to the closest water well.
Optional Information
The following information is not required in the final rule; however, such information will assist EPA in evaluating the risks associated with the continuous release. If this information is not provided, EPA will make conservative assumptions about the appropriate values. Please note that the units specified below are suggested units. You may use other units; however, be certain that the units are clearly identified.
 For a stack release to air, provide the following information, if available: Inside diameter Gas Exit Velocity 50 each feet/second or For a release to surface water, provide the following information, if available: Average Velocity feet/second of Surface Water

meters/seconds

_85_degrees Fahrenheit, -Kelvin, or Celsius

Gas Temperature

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SOURCE INFORMATION	(continued)	
SECTION II:		

Part C. Identity and Quantity of Each Hazardous Substance or Mixture Released From Each Source Please provide a SEPARATE sheet for EACH source. Photocopy this page if necessary.

List each hazardous substance released from the source identified above and provide the following information. (For an example, see Table 1 of Plant #2 Prill Tower, P-406 Name of Source:

the Release Months of AII Reporting Requirements for Continuous Releases of Hazardous Substances - A Guide for Facilities and Vessels on Compliance.) Released in Previous Year (in lbs. or kg)* Total Quantity 420,000 of Releases (per year) Number 365 Lower Bound (in lbs. or kg per day)* 700 Normal Range Upper Bound 1,200 7664-41-7 CASRN# Name of Hazardous Substance Ammonia List each mixture released from the source identified above and provide the following information. (For an example, see Table 2 of Reporting Requirements for Continuous Releases of Hazardous Substances – A Guide for Facilities and Vessels on Compliance.)

of Releases (per year) Number (in lbs. or kg per day)* Normal Range of Bound Bound Upper Lower (in lbs. or kg per day)* Normal Range of Components Upper Lower Bound Bound Percentage Weight CASRN# Components Hazardous Substance Name of Name of Mixture

Release

Months of the

Total Quantity of Mixture Released in Previous Year (in lbs. or kg)

N/A

Please be sure to include units where appropriate. Also, if the release is a radionuclide, units of curies (CI) are appropriate.



SECTION II: SOURCE INFORMATION

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	Josef y.
Na	me of Source: Plant #2 Atmospheric Absorber, D-405
1.	Indicate whether the release from this source is either:
	continuous without interruption X OR routine, anticipated, intermittent
2.	Identify the activity(ies) that results in the release from this source (e.g., batch process, filling of a storage tank). If malfunction, describe the malfunction and explain why the release from the malfunction should be considered continuous and stable in quantity and rate.*
	Release could result if scrubber is taken down for maintenance during urea production. However, whenever possible, maintenance is performed during periods of plant shutdown.
3.	Identify below how you established the pattern of release and calculated release estimates.
	Past release dataKnowledge of the facility/vessel'sX_Engineering estimate operations and release history
	AP-42 test Best professional judgment Other (explain)

^{*} Note that unanticipated events, such as spills, pipe ruptures, equipment failures, emergency shutdowns, or accidents, do not qualify for reduced reporting under CERCLA section 103(f)(2). Unanticipated events are not incidental to normal operations and, by definition, are not continuous or anticipated, and are not sufficiently predictable or regular to be considered stable in quantity and rate.

SOURCE

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(continued)		
Name of Source:	Plant #2 Atmospheric A	Absorber, D-405	
for EACH source. Photo	above, provide the following copy this page if necessary.	•	
affected by the release from wastepile releasing to air an	this source. If your source rela	ium (i.e., air, surface water, soil, or ground water) that is eleases hazardous substances to more than one medium (e.g., ase to EACH medium as a separate source and complete edium affected.	a
	X or area) If the meground-based area source.	nedium affected is air, please also specify whether the	
If identified source is	a stack, indicate stack height:	:94 feet or meters ; OR	
	an area source (e.g., waste pil urface area: square feet or	ile, landfill, valves, tank vents, pump seals, fugitive or square meters.	
	(stream, lake		•
If the release affects a	stream, give the stream order	er or average flow rate, in cubic feet per second.	
stream order:	or average flow rate: cu	pubic feet/second; OR	
If the release affects a	lake, give the surface area of	f the lake in acres and the average depth in meters.	
surface area of lake:	acres and average depth	of lake: meters.	
O SOIL OR GROUND	WATER		
	er ground, indicate the distance	e to the closest water well.	
	Ontional	l Information	<u> </u>
The following informat		rule; however, such information will assist EPA in	7
	• • • • • • • • • • • • • • • • • • •		- 1

evaluating the risks associated with the continuous release. If this information is not provided, EPA will make conservative assumptions about the appropriate values. Please note that the units specified below are suggested units. You may use other units; however, be certain that the units are clearly identified.

		the following
Inside diameter	0.3	feet or meters
Gas Exit Velocity	Unknown	feet/second or
	information, if avai Inside diameter	Gas Exit Velocity <u>Unknown</u>

meters/seconds

Gas Temperature <u>Unknown</u> degrees Fahrenheit, -Kelvin, or Celsius

For a release to surface water, provide the following information, if available:

Average Velocity _____feet/second of Surface Water

		William William				
Š	SECTION II: SOURCE INFORMATION			CR-ERNS Number	Number	
	(continued)			44607	7	
Pa	Part C. Identity and Quantity of Each Hazardous Substance or Mixture Released Fr Please provide a SEPARATE sheet for EACH source. Photocopy this page if necessary.	ubstance or M Photocopy thi	ixture Release is page if neces	is Substance or Mixture Released From Each Source rce. Photocopy this page if necessary.	<u>rce</u> .	
Z	Name of Source: Plant #2 Atmospheric Absorber, D-405	J-405				
		,	, , , , , , , , , , , , , , , , , , ,	120		٠
	List each hazardous substance released from the source identified above and provide the following information. (For an example, see Table 1 of Reporting Requirements for Continuous Releases of Hazardous Substances – A Guide for Facilities and Vessels on Compliance.)	ed above and proved s Substances – A C	vide the following Juide for Facilities	information. (For an e and Vessels on Compl	xample, see Table I iance.)	10 T
	Normal Range (in lbs. or kg per day)* Name of Hazardous Substance CASRN # Upper Bound Lower Bo	pui	Number of Releases Rel (per year)	Total Quantity Released in Previous Year (in lbs. or kg)*	Months of the Release	
	Ammonia 7664-41-7 1,000	0 les	less than one	0	All	
	List each mixture released from the source identified above and provide the following information. (For an example, see Table 2 of Reporting Requirements for Continuous Releases of Hazardous Substances – A Guide for Facilities and Vessels on Compliance.)	l provide the folloes – A Guide for F	wing information.	(For an example, see I	fable 2 of Reportin	b 0
	Name of Hazardous Substance Name of Mixture Components CASRN# Percentage B	Normal Range of Components (in lbs. or kg per day)* Upper Lower Bound Bound	Normal Range of Mixture (in lbs. or kg per day)* Upper Lower Bound Bound	Number of Releases (per year)	Total Quantity of Mixture Released Mixture in Previous Year of (in lbs. or kg) Re	Months of the <u>Release</u>
	N/A	·				
*	Please be sure to include units where appropriate. Also, if the rel	s a radionuclide, uni	ease is a radionuclide, units of curies (CI) are appropriate.	appropriate.		

				,		
		·				
					·	
	·					
: 			<u> </u>	<u>.</u>	 : *	

SECTION II: SOURCE INFORMATION

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2. Identify the a If malfunction continuous as Release Howev	vithout interruption activity(ies) that reson, describe the male and stable in quantity e could result in	if scrubber is taken down for mainte	ch process, filling of a storage tank). he malfunction should be considered
2. Identify the a If malfunction continuous as Release Howev 3. Identify belo	activity(ies) that reson, describe the malend stable in quantity	sults in the release from this source (e.g., bate alfunction and explain why the release from the ty and rate.* if scrubber is taken down for maintenessible, maintenance is performed during	ch process, filling of a storage tank). he malfunction should be considered enance during urea production. periods of plant shutdown.
If malfunction continuous and Release Howev	on, describe the mal nd stable in quantity e could result i	alfunction and explain why the release from the ty and rate.* if scrubber is taken down for maintenance is performed during the same and the same a	he malfunction should be considered enance during urea production.
Howev 3. Identify belo		ssible, maintenance is performed during	periods of plant shutdown.
•		ily sure the	y ix noo
•		ye -	
Past	w how you establis	shed the pattern of release and calculated relea	ase estimates.
	t release data	Knowledge of the facility/vessel's operations and release history	X Engineering estimate
AP	-42 test	Best professional judgment	Other (explain)
÷			•
			,

^{*} Note that unanticipated events, such as spills, pipe ruptures, equipment failures, emergency shutdowns, or accidents, do not qualify for reduced reporting under CERCLA section 103(f)(2). Unanticipated events are not incidental to normal operations and, by definition, are not continuous or anticipated, and are not sufficiently predictable or regular to be considered stable in quantity and rate.

SOURCE

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For a stack release to air, provide the following

1.5

Unknown

feet or meters

feet/second or meters/seconds 100 degrees Fahrenheit,

- Kelvin, or Celsius

information, if available:

Inside diameter

Gas Exit Velocity

Gas Temperature

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For a release to surface water, provide the following information, if available:

Average Velocity _____ feet/second

of Surface Water

(continued)		
Name of Source:	Plant #2 Tank Vent Scru	ubber, D-406	
for EACH source. Photo AFFECTED MEDIUM. Id affected by the release from wastepile releasing to air an	above, provide the following ocopy this page if necessary. entify the environmental medium	m (i.e., air, surface water, ases hazardous substance te to EACH medium as a	es to more than one medium (e.g., a
source is a stack or a If identified source is If identified source is	X or area) If the me ground-based area source. a stack, indicate stack height: an area source (e.g., waste pile urface area: square feet or	33 feet or-	meters; OR
	(stream, lake any surface water body, give th		
If the release affects:	a stream, give the stream order	or average flow rate, in c	ubic feet per second.
stream order:	or average flow rate: cul	bic feet/second; OR	
If the release affects:	a lake, give the surface area of t	he lake in acres and the a	verage depth in meters.
surface area of lake:	acres and average depth of	of lake: meters.	
O SOIL OR GROUND If the release is on or und	WATERer ground, indicate the distance	to the closest water well.	
	Optional 1	Information	
evaluating the risks ass make conservative ass	ion is not required in the final receisted with the continuous releumptions about the appropriates use other units; however, be	ase. If this information ate values. Please note the	is not provided, EPA will hat the units specified below are

Č		Carar aryango	TACTION			THE COLUMN	CD FDNS Number	
Z	VECTION II:	SOURCE INFORMATION	KINIALIUN			CK-EF	Into Intiliper	
,		(continued)				7	44607	
Par Ple	t C. Identity a	Part C. Identity and Quantity of Each Hazardous Substance or Mixture Released Fr Please provide a SEPARATE sheet for EACH source. Photocopy this page if necessary.	ach Hazardou or EACH sour	s Substance or ce. Photocopy	Mixture Rek this page if ne	Part C. Identity and Quantity of Each Hazardous Substance or Mixture Released From Each Source Please provide a SEPARATE sheet for EACH source. Photocopy this page if necessary.	Source	
Ž	Name of Source:	Plant #2 Tan	Plant #2 Tank Vent Scrubber, D-406	, D-406				
	List each hazardous Reporting Requiren	substance released fr nents for Continuous]	om the source ide Releases of Hazar	entified above and dons Substances –	provide the follov A Guide for Faci	List each hazardous substance released from the source identified above and provide the following information. (For an example Reporting Requirements for Continuous Releases of Hazardous Substances – A Guide for Facilities and Vessels on Compliance.)	List each hazardous substance released from the source identified above and provide the following information. (For an example, see Table 1 of Reporting Requirements for Continuous Releases of Hazardous Substances – A Guide for Facilities and Vessels on Compliance.)	
/- -1	Name of Hazardous Substance	bstance CASRN#	Non (in lbs. o <u>Upper Bound</u>	Normal Range lbs. or kg per day)* ound <u>Lower Bound</u>	Number of Releases (per year)	Total Quantity Released in Previous Year (in lbs. or-kg)*	ar Months of the Release	
	Ammonia	7664-41-7	7 1,000	0	less than one	0	All	
	List each mixture re Requirements for C	eleased from the source	e identified above. Hazardous Subst	e and provide the fi	ollowing informator Facilities and V	List each mixture released from the source identified above and provide the following information. (For an example, Requirements for Continuous Releases of Hazardous Substances – A Guide for Facilities and Vessels on Compliance.)	List each mixture released from the source identified above and provide the following information. (For an example, see Table 2 of Reporting Requirements for Continuous Releases of Hazardous Substances – A Guide for Facilities and Vessels on Compliance.)	
<u> </u>	Name of Mixture	Name of Hazardous Substance Components CASRN#	Weight Percentage	Normal Range of Components (in lbs. or kg per day)* Upper Lower Bound Bound	Normal Range of Mixture ** (in lbs. or kg per day)* Upper Lower Bound Bound	ige of e er day)* Number wer of Releases und (per year)	Total Quantity of Mixture Released Months in Previous Year of the (in 1bs. or kg) Release	lis Se
	N/A					·		
					!			
*	-}	Please be sure to include units where appropriate. Also, if the release is a radionuclide, units of curies (CI) are appropriate.	ate. Also, if the rele	ase is a radionuclide,	, units of curies (CL)	are appropriate.		



	44607
ior ess	t A: Basis for Asserting the Release is Continuous and Stable in Quantity and Rate. EACH source of a release of a hazardous substance or mixture from your facility or rel, provide the following information on a SEPARATE sheet. Photocopy this page if essary.
Na	me of Source: Plant #2 Crystallizer Hotwell, F-410
1.	Indicate whether the release from this source is either: continuous without interruptionXOR routine, anticipated, intermittent
2.	Identify the activity(ies) that results in the release from this source (e.g., batch process, filling of a storage tank). If malfunction, describe the malfunction and explain why the release from the malfunction should be considered continuous and stable in quantity and rate.*
	Urea Prill Production
3.	Identify below how you established the pattern of release and calculated release estimates.
3.	Identify below how you established the pattern of release and calculated release estimates. Past release data Knowledge of the facility/vessel's yessel's X Engineering estimate operations and release history

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SECTION II:

SOURCE

INFORMATION

^{*} Note that unanticipated events, such as spills, pipe ruptures, equipment failures, emergency shutdowns, or accidents, do not qualify for reduced reporting under CERCLA section 103(f)(2). Unanticipated events are not incidental to normal operations and, by definition, are not continuous or anticipated, and are not sufficiently predictable or regular to be considered stable in quantity and rate.

SOURCE

INFORMATION

(continued)

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(continued)
Name of Source: Plant #2 Crystallizer Hotwell, F-410
Part B: Specific Information on the Source For the source identified above, provide the following information. Please provide a SEPARATE sheet for EACH source. Photocopy this page if necessary.
AFFECTED MEDIUM. Identify the environmental medium (i.e., air, surface water, soil, or ground water) that is affected by the release from this source. If your source releases hazardous substances to more than one medium (e.g., a wastepile releasing to air and ground water), treat the release to EACH medium as a separate source and complete Section II, Parts A, B, and C, of this format for EACH medium affected.
O AIR X (stack X or area) If the medium affected is air, please also specify whether the source is a stack or a ground-based area source.
If identified source is a stack, indicate stack height: 94 feet or meters; OR
If identified source is an area source (e.g., waste pile, landfill, valves, tank vents, pump seals, fugitive emissions), indicate surface area: square feet or square meters.
O SURFACE WATER (stream, lake, or other)
If the release affects any surface water body, give the name of the water body.
If the release affects a stream, give the stream order or average flow rate, in cubic feet per second.
stream order: or average flow rate: cubic feet/second; OR
If the release affects a lake, give the surface area of the lake in acres and the average depth in meters.
surface area of lake: acres and average depth of lake: meters.
O SOIL OR GROUND WATER If the release is on or under ground, indicate the distance to the closest water well.
Ontional Information

Optional Information

The following information is not required in the final rule; however, such information will assist EPA in evaluating the risks associated with the continuous release. If this information is not provided, EPA will make conservative assumptions about the appropriate values. Please note that the units specified below are suggested units. You may use other units; however, be certain that the units are clearly identified.

•	information, if avai	, x	tne ronowing
	Inside diameter Gas Exit Velocity	0.5 Unknown me	feet or meters feet/second or eters/seconds

For a release to surface water, provide the following information, if available:
 Average Velocity _____ feet/second of Surface Water

Gas Temperature <u>180</u> degrees Fahrenheit,
-Kelvin, or Celsius

Part C. Identity and Quantity of Each Hazardous Substance or Mixture Released From Each Source Please provide a SEPARATE sheet for EACH source. Photocopy this page if necessary. Name of Source: Plant #2 Crystallizer Hotwell, F-410	S	SECTION II: SO	SOURCE INFORMATION	MATION			CR-ERNS	CR-ERNS Number	
Part C. Identity and Quantity of Each Hazardous Substance or Mixture Released From Each Source Name of Source: Plant #2 Crystallizer Hotwell, F-410 List each hazardous substance released from the source identified above and provide the following information. (For au example, see Table 1 of Reporting Requirements for Continuous Releases of Hazardous Substances – A Guide for Facilities and Yessels on Compilance.) Normal Range (in lbs. or kg per day)* (Releases Released in Pervious Year Months of Table 10 in 1950 of Release Released in Pervious Year Hazardous Substance CASRN # Upper Bound Lower Bound (for year) (in lbs. 4744)* All Ammonia 7664-41-7 10 1 365 1825 All		9 9)	ntinued)				446	07	
Name of Source: Plant #2 Crystallizer Hotwell, F-410 List each hazardous substance released from the source identified above and provide the following information. (For an example, see Table 1 of Reporting Requirements for Continuous Releases of Hazardous Substances - A Guide for Facilities and Vessels on Compliance.) Normal Range Number Total Quantity (in lbs. or kg per day)* of Releases Released in Previous Year Months of Oper Bound Lower Bound (per year) (in lbs. ex-kg)* the Release Ammonia 7664-41-7 10 1 365 1825 All	Pan Ple	rt C. Identity and (Quantity of Eac	h Hazardous EACH source	Substance or Photocopy	Mixture R this page if	eleased From Each Sou necessary.	ırce	
List each hazardous substance released from the source identified above and provide the following information. (For an example, see Table 1 of Reporting Requirements for Continuous Releases of Hazardous Substances — A Guide for Facilities and Vessels on Compliance.) Normal Range — Number — Total Quantity (in 1bs. or kg per day)* of Releases — Released in Previous Year — Months of — (in 1bs. or kg)* — Ammonia — 7664-41-7 — 10 — 1 — 365 — 1825 — All	Z	ame of Source:	Plant #2 Crysta	ilizer Hotwell, F	-410				
Normal Range Number Total Quantity (in lbs. or kg per day)* of Releases Released in Previous Year CASRN # Upper Bound Lower Bound (per year) (in lbs. er kg)* 7664-41-7 10 1 365 1825		List each hazardous sub	tance released from for Continuous Rel	the source ident	ified above and]	provide the fol A Guide for F	lowing information. (For an acilities and Vessels on Comp	example, see Table 1 of oliance.)	
7664-41-7 10 1 365 1825		Name of Hazardous Substan	CASRN#	Norma (in lbs. or k <u>Upper Bound</u>	l Range g per day)* <u>Lower Bound</u>	Number of Releases (per year)	Total Quantity Released in Previous Year (in lbs. erkg)*		
		Ammonia	7664-41-7	10	,	365	1825	All	
		-							

List each mixture released from the source identified above and provide the following information. (For an example, see Table 2 of Reporting Requirements for Continuous Releases of Hazardous Substances – A Guide for Facilities and Vessels on Compliance.) Normal Range of Normal Range of

Name of
Hazardous
Substance
Name of Mixture
Components
CASRN#
Percentage

(in lbs. or kg per day)*

ht Upper Lower

age Bound Bound

(in lbs. or kg per day)*
Upper Lower
Bound Bound

Mixture

Components

Number Mixture Released of Releases in Previous Year (per year) (in lbs. or kg)

Months of the Release

N/A

Please be sure to include units where appropriate. Also, if the release is a radionuclide, units of curies (CI) are appropriate.

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	 	 ×.

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or EACH sourcessel, provide the ecessary.	e of a release of a hazardous sub e following information on a SE	nuous and Stable in Quantity and Rate, stance or mixture from your facility or PARATE sheet. Photocopy this page if
or EACH sourcessel, provide the ecessary. Name of Source:	e of a release of a hazardous sub	stance or mixture from your facility or

If malfunction, describe the malfunction and explain why the release from the malfunction should be considered continuous and stable in quantity and rate.* Urea solution is directed from the crystallizer to the surge tank when there is a back-end outage. Identify below how you established the pattern of release and calculated release estimates. Knowledge of the facility/vessel's Engineering estimate Past release data operations and release history Best professional judgment Other (explain) AP-42 test

^{*} Note that unanticipated events, such as spills, pipe ruptures, equipment failures, emergency shutdowns, or accidents, do not qualify for reduced reporting under CERCLA section 103(f)(2). Unanticipated events are not incidental to normal operations and, by definition, are not continuous or anticipated, and are not sufficiently predictable or regular to be considered stable in quantity and rate.

SOURCE

INFORMATION

(continued)

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Name of Source: Plant #2 Urea Surge Tank, F-409
art B: Specific Information on the Source For the source identified above, provide the following information. Please provide a SEPARATE sheet for EACH source. Photocopy this page if necessary.
AFFECTED MEDIUM. Identify the environmental medium (i.e., air, surface water, soil, or ground water) that is affected by the release from this source. If your source releases hazardous substances to more than one medium (e.g., a wastepile releasing to air and ground water), treat the release to EACH medium as a separate source and complete Section II, Parts A, B, and C, of this format for EACH medium affected.
 AIR X (stack X or area) If the medium affected is air, please also specify whether the source is a stack or a ground-based area source. If identified source is a stack, indicate stack height: 94 feet or meters; OR
If identified source is an area source (e.g., waste pile, landfill, valves, tank vents, pump seals, fugitive emissions), indicate surface area: square feet or square meters.
O SURFACE WATER (stream, lake, or other)
If the release affects any surface water body, give the name of the water body.
 If the release affects a stream, give the stream order or average flow rate, in cubic feet per second. stream order: or average flow rate: cubic feet/second; OR If the release affects a lake, give the surface area of the lake in acres and the average depth in meters. surface area of lake: acres and average depth of lake: meters.
O SOIL OR GROUND WATER If the release is on or under ground, indicate the distance to the closest water well.
Optional Information
The following information is not required in the final rule; however, such information will assist EPA in evaluating the risks associated with the continuous release. If this information is not provided, EPA will make conservative assumptions about the appropriate values. Please note that the units specified below are suggested units. You may use other units; however, be certain that the units are clearly identified.
 For a stack release to air, provide the following information, if available: Inside diameter Gas Exit Velocity Instead of section of the following information, if available:

-Kelvin, or Celsius

							Man and	C M	
S	SECTION II: SOUR	SOURCE INFORMATION	IATION		!		CK-EKIN	CK-EKINS Number	
	nmoa)	muea)					440	4400/	
Par Pleu	Part C. Identity and Quantity of Each Hazardous Substance or Mixture Released From Each Source Please provide a SEPARATE sheet for EACH source. Photocopy this page if necessary.	antity of Each	Hazardous	Substance or	Mixture Rel	eased Fro	m Each So	<u>urce</u>	
ž	Name of Source:	Plant #2 Urea Surge Tank, F-409	ırge Tank, F-4	60		2			
) -	List each hazardous substance released from the source identified above and provide the following information. (For an example, see Table 1 of	ice released from	the source iden	tified above and I	provide the follo	Wing inform	ation. (For an	example, see Tal	le 1 of
	Reporting Requirements for Continuous Releases of Indian Branch Continuous Sear Normal Range Number Total Quantity (in lbs. or kg per day)* of Releases Released in Previous Year	r Continuous Kere	Normi (in lbs. or	Normal Range (in lbs. or kg per day)*	Number of Releases	Total Released in	Total Quantity Released in Previous Year	Months of the Release	
~ ⊣t	Name of Hazardous Substance	CASKIN #	Opper Bound	Tower pound	(per year)		3. VI RE 1		<u></u>
	Ammonia	7664-41-7	∞	0	Approx. 10		80	All	
						:			
	List each mixture released from the source identified above and provide the following information. (For an example, see Table 2 of Reporting Requirements for Continuous Releases of Hazardous Substances – A Guide for Facilities and Vessels on Compliance.)	from the source id	entified above zardous Substa	and provide the funces – A Guide fo	llowing inform or Facilities and	ation. (For a Vessels on C	ın example, see	e Table 2 of Repo	rting
				Normal Range of Components (in lbs. or kg per day)* Upper Lower	e e		Number of Releases	Total Quantity of Mixture Released in Previous Year	Months of the
	Name of Mixture Components	ents CASRN#	<u>Percentage</u>	Bound Bound	Bound Bound		(per year)	(m lbs. or kg)	Kelease
	N/A								
*	Please be sure to include units where appropriate. Also, if the release is a radionuclide, units of curies (CI) are appropriate.	where appropriate.	Also, if the relea	se is a radionuclide,	units of curies (C	I) are appropr	iate.		



SECTION II: SOURCE INFORMATION

CR-ERNS Number

44607

necessary.
Name of Source: Plant #2 Vent Scrubber, D-407
1. Indicate whether the release from this source is either:
continuous without interruption X OR routine, anticipated, intermittent
2. Identify the activity(ies) that results in the release from this source (e.g., batch process, filling of a storage tank). If malfunction, describe the malfunction and explain why the release from the malfunction should be considered continuous and stable in quantity and rate.* (ab Arralyzes Ala every 2 world) Urea prill production. Pleasure in cuersos of tartes 0.5ps; Not coops of 5 states Not coops of tartes are presented.
3. Identify below how you established the pattern of release and calculated release estimates.
X Past release data Knowledge of the facility/vessel's Engineering estimate operations and release history
AP-42 test Best professional judgment Other (explain)

^{*} Note that unanticipated events, such as spills, pipe ruptures, equipment failures, emergency shutdowns, or accidents, do not qualify for reduced reporting under CERCLA section 103(f)(2). Unanticipated events are not incidental to normal operations and, by definition, are not continuous or anticipated, and are not sufficiently predictable or regular to be considered stable in quantity and rate.

SOURCE

INFORMATION

(continued)

CR-ERNS Number

44607

Name of Source: Plant #2 Vent Scrubber, D-407
Part B: Specific Information on the Source For the source identified above, provide the following information. Please provide a SEPARATE sheet for EACH source. Photocopy this page if necessary. AFFECTED MEDIUM. Identify the environmental medium (i.e., air, surface water, soil, or ground water) that is affected by the release from this source. If your source releases hazardous substances to more than one medium (e.g., a wastepile releasing to air and ground water), treat the release to EACH medium as a separate source and complete Section II, Parts A, B, and C, of this format for EACH medium affected.
 AIR X (stack X or area) If the medium affected is air, please also specify whether the source is a stack or a ground-based area source. If identified source is a stack, indicate stack height: 70 feet or meters; OR If identified source is an area source (e.g., waste pile, landfill, valves, tank vents, pump seals, fugitive emissions), indicate surface area: square feet or square meters.
SURFACE WATER (stream, lake, or other) If the release affects any surface water body, give the name of the water body.
 If the release affects a stream, give the stream order or average flow rate, in cubic feet per second. stream order: or average flow rate: cubic feet/second; OR If the release affects a lake, give the surface area of the lake in acres and the average depth in meters. surface area of lake: acres and average depth of lake: meters.
O SOIL OR GROUND WATER If the release is on or under ground, indicate the distance to the closest water well.
Optional Information
The following information is not required in the final rule; however, such information will assist EPA in evaluating the risks associated with the continuous release. If this information is not provided, EPA will make conservative assumptions about the appropriate values. Please note that the units specified below are suggested units. You may use other units; however, be certain that the units are clearly identified.
 For a stack release to air, provide the following information, if available: Inside diameter 8 feet or meters Gas Exit Velocity Unknown feet/second or meters/(seconds) For a release to surface water, provide the following information, if available: Average Velocity feet/second of Surface Water

180-220 degrees Fahrenheit.

-Kelvin, or Celsius

Gas Temperature

	SECTION II: SOU	SOURCE INFORMATION	MATION			CR-ER	CR-ERNS Number	
	(con	(continued)				44	44607	
	Part C. Identity and Quantity of Each Hazardous Substance or Mixture Released From Each Source Please provide a SEPARATE sheet for EACH source. Photocopy this page if necessary.	nantity of Each ATE sheet for	Hazardou EACH sour	s Substance or A ce. Photocopy th	Mixture Releas iis page if nece	ed From Each Sossary.	ource	
	Name of Source:	Plant #2 Vent Scrubber, D-2	crubber, D-407	7				
					wide the following	information (For a	n ovomnle soo Toh	1010
	List each hazardous substance released from the source identified and provide the following mitormation. (For an example, see Table For Reporting Requirements for Continuous Releases of Hazardous Substances – A Guide for Facilities and Vessels on Compliance.)	ince released from or Continuous Rel	the source ide eases of Hazar	ntified above and pr dous Substances – A	Ovide the following Guide for Facilitia	s and Vessels on Cor	mpliance.)	10 1 21
	Name of Hazardous Substance	CASRN#	Norn (in lbs. oi Upper Bound	Normal Range (in lbs. or kg per day)* r <u>Bound</u> <u>Lower Bound</u>	Number of Releases Ro (per year)	Total Quantity Released in Previous Year (in lbs. or kg)*	r Months of the Release	411
	Ammonia	7664-41-7	180	0	365	7,700	AII	
	- 							
_	List each mixture released from the source identified above and provide the following information. (For an example, see Table 2 of Reporting	from the source id	lentified above	and provide the foll	lowing information	. (For an example, s	ee Table 2 of Repor	ting
	Requirements for Continuous Releases of Hazardous Substances — A Guide for Facilities and Vessels on Compliance.)	ous Releases of Ha	ızardous Subst	iances – A Guide for	Facilities and Vessels	sels on Compliance.)		
	Name of Hazardous	of ous		Components (in lbs. or kg per day)*	(in		Total Quantity of Mixture Released	Months
	Substance Name of Mixture Components	nce tents CASRN#	Weignt Percentage	Upper Lower Bound	Upper Lower Bound Bound	Or Keleases (per year)	in rrevious rear (in lbs. or kg)	Nelease
	N/A							

* Please be sure to include units where appropriate. Also, if the release is a radionuclide, units of curies (CI) are appropriate.

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<u>. </u>	-		<u> </u>	 <u>an na sasa sa</u>

SECTION II:	SOURCE
	INFORMATION

CR-ERNS Number

44607

nec	essary.					
Na	me of Source: Plant #2 Vent Scrubber, D-408					
1.	Indicate whether the release from this source is either:					
	continuous without interruption X OR routine, anticipated, intermittent					
2.	Identify the activity(ies) that results in the release from this source (e.g., batch process, filling of a storage tank). If malfunction, describe the malfunction and explain why the release from the malfunction should be considered continuous and stable in quantity and rate.* Sompled complete comp					
ı	Urea prill production.					
	Release Ant. it?					
3.	Identify below how you established the pattern of release and calculated release estimates.					
	Past release data Knowledge of the facility/vessel's X Engineering estimate operations and release history					
	AP-42 testBest professional judgmentOther (explain)					

^{*} Note that unanticipated events, such as spills, pipe ruptures, equipment failures, emergency shutdowns, or accidents, do not qualify for reduced reporting under CERCLA section 103(f)(2). Unanticipated events are not incidental to normal operations and, by definition, are not continuous or anticipated, and are not sufficiently predictable or regular to be considered stable in quantity and rate.

SOURCE

INFORMATION

(continued)

CR-ERNS Number

44607

Name	ηf	Source:	
	V.	Dom co.	

Plant #2 Vent Scrubber, D-408

Part B: Specific Information on the Source

For the source identified above, provide the following information. Please provide a SEPARATE sheet for EACH source. Photocopy this page if necessary.

AFFECTED MEDIUM. Identify the environmental medium (i.e., air, surface water, soil, or ground water) that is affected by the release from this source. If your source releases hazardous substances to more than one medium (e.g., a wastepile releasing to air and ground water), treat the release to EACH medium as a separate source and complete Section II, Parts A, B, and C, of this format for EACH medium affected.

O AIR X (stack X or a ground-based area source.) If the med source is a stack or a ground-based area source.	ium affected	l is air, please also specify whether the			
• If identified source is a stack, indicate stack height: _	70	feet or meters ; OR			
 If identified source is an area source (e.g., waste pile, landfill, valves, tank vents, pump seals, fugitive emissions), indicate surface area: square feet or square meters. 					
O SURFACE WATER (stream, lake	_, or other _)			
If the release affects any surface water body, give the name of the water body.					
If the release affects a stream, give the stream order or average flow rate, in cubic feet per second. stream order: or average flow rate: cubic feet/second; OR					
If the release affects a lake, give the surface area of the					
surface area of lake: acres and average depth of					
O SOIL OR GROUND WATER If the release is on or under ground, indicate the distance to the closest water well.					

Optional Information

The following information is not required in the final rule; however, such information will assist EPA in evaluating the risks associated with the continuous release. If this information is not provided, EPA will make conservative assumptions about the appropriate values. Please note that the units specified below are suggested units. You may use other units; however, be certain that the units are clearly identified.

•	For a stack release t information, if avai		ide the following
	Inside diameter	4	feet or meters
	Gas Exit Velocity	70-100	feet/second or
	•	•	meters/seconds

Gas Temperature

180-220 degrees Fahrenheit,

<u>Kelvin, or Celsius</u>

For a release to surface water, provide the following information, if available:

Average Velocity ______ feet/second of Surface Water

 SECTION II:	SOURC	SOURCE INFORMATION	TATION				CR-ERN	CR-ERNS Number	
	(continued)	ed)		,			44	44607	
Part C. Identity and Quantity of Each Hazardous Substance or Mixture Released From Each Source Please provide a SEPARATE sheet for EACH source. Photocopy this page if necessary.	nd Quant	ity of Each	Hazardous EACH sour	s Substance or ce. Photocopy	Mixture Re this page if n	leased Fr	om Each So	urce	
Name of Source:	Pla	nt #2 Vent Sc	Plant #2 Vent Scrubber, D-408	8				II	
 List each hazardous substance released from the source identified above and provide the following information. (For an example Reporting Requirements for Continuous Releases of Hazardous Substances – A Guide for Facilities and Vessels on Compliance.)	substance r	cleased from	the source iden	ntified above and p	orovide the folk A Guide for Fa	wing inforr cilities and	nation. (For ar Vessels on Com	(For an example, see Table 1 of on Compliance.)	ble 1 of
Name of Hazardous Substance	<u>bstance</u>	CASRN#	Nom (in lbs. or <u>Upper Bound</u>	Normal Range (in lbs. or kg per day)* <u>r Bound</u> <u>Lower Bound</u>	Number of Releases (per year)	Tot Released (in I	Total Quantity Released in Previous Year (in 1bs. or kg)*	Months of the Release	f.
 Ammonia	•	7664-41-7	100	0	365		30	All	
 List each mixture released from the source identified above and provide the following information. (For an example, Requirements for Continuous Releases of Hazardous Substances – A Guide for Facilities and Vessels on Compliance.)	leased from	the source id	entified above	and provide the following information. (For an example, see Table 2 of Reporting ances – A Guide for Facilities and Vessels on Compliance.)	llowing inform	ation. (For Vessels on	an example, se	e Table 2 of Repo	rting
 Name of Mixture	Name of Hazardous Substance Components	CASRN#	Weight <u>Percentage</u>	Normal Range of Components (in lbs. or kg per day)* Upper Lower Bound Bound	Normal Range of Mixture * (in lbs. or kg per day)* Upper Lower Bound Bound	ange of ure t per day)* .ower	Number of Releases (per year)	Total Quantity of Mixture Released in Previous Year (in Ibs. or kg)	Months of the Release
N/A									
 Please be sure to include units where appropriate. Also, if the release is a radionuclide, units of curies (CI) are appropriate.	ude units whe	re appropriate.	Also, if the rele	ase is a radionuclide,	units of curies (C	I) are approt	riate.		

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SECTION II: SOURCE INFORMATION

CR-ERNS Number

44607

Na	ame of Source: Plant 2 Cooling Tower, E-611
1.	Indicate whether the release from this source is either:
	continuous without interruption OR routine, anticipated, intermittent X
2.	Identify the activity(ies) that results in the release from this source (e.g., batch process, filling of a storage tank) If malfunction, describe the malfunction and explain why the release from the malfunction should be considered continuous and stable in quantity and rate.*
	Release occurs during Process Condensate Stripper outages, which occur approximately once every 4 years during turnarounds. During outages, the process condensate is directed to either the Plant 2 or the Plant 5 cooling tower.
3.	Identify below how you established the pattern of release and calculated release estimates.
	Past release data Knowledge of the facility/vessel's X _ Engineering estimate operations and release history
	AP-42 test Best professional judgment Other (explain)

^{*} Note that unanticipated events, such as spills, pipe ruptures, equipment failures, emergency shutdowns, or accidents, do not qualify for reduced reporting under CERCLA section 103(f)(2). Unanticipated events are not incidental to normal operations and, by definition, are not continuous or anticipated, and are not sufficiently predictable or regular to be considered stable in quantity and rate.

SOURCE

INFORMATION

CR-ERNS Number

44607

(continued)

Name of Source:

Plant 2 Cooling Tower, E-611

Part B: Specific Information on the Source

For the source identified above, provide the following information. Please provide a SEPARATE sheet for EACH source. Photocopy this page if necessary.

AFFECTED MEDIUM. Identify the environmental medium (i.e., air, surface water, soil, or ground water) that is affected by the release from this source. If your source releases hazardous substances to more than one medium (e.g., a wastepile releasing to air and ground water), treat the release to EACH medium as a separate source and complete Section II, Parts A, B, and C, of this format for EACH medium affected.

O AIR X (stack X or area) If the medium affected is air source is a stack or a ground-based area source.	, please also specify whether the			
• If identified source is a stack, indicate stack height: 60 feet or meters; OR				
• If identified source is an area source (e.g., waste pile, landfill, valves, tank vents, pump seals, fugitive emissions), indicate surface area: square feet or square meters.				
O SURFACE WATER (stream, lake, or other)			
If the release affects any surface water body, give the name of the water	r body.			
If the release affects a stream, give the stream order or average flow rate, in cubic feet per second. CD CD CD CD CD CD CD C				
stream order: or average flow rate: cubic feet/second; OF				
• If the release affects a lake, give the surface area of the lake in acres and	the average depth in meters.			
surface area of lake: acres and average depth of lake: meter	·S.			
O SOIL OR GROUND WATER If the release is on or under ground, indicate the distance to the closest water	· well.			

Optional Information

The following information is not required in the final rule; however, such information will assist EPA in evaluating the risks associated with the continuous release. If this information is not provided, EPA will make conservative assumptions about the appropriate values. Please note that the units specified below are suggested units. You may use other units; however, be certain that the units are clearly identified.

•	For a stack release t information, if avai	to air, provide the following lable:	•
	Inside diameter	6 cones each 15 feet or me	ers
	Gas Exit Velocity	2.5 million cfm	1
		meters/seconds	

For a release to surface water, provide the following information, if available:

Average Velocity _____ feet/second of Surface Water

Gas Temperature

80 degrees Fahrenheit,
-Kelvin, or Celsius

SOURCE INFORMATION	(continued)
SECTION II:	

44607

CR-ERNS Number

Identity and Quantity of Each Hazardous Substance or Mixture Released From Each Source Please provide a SEPARATE sheet for EACH source. Photocopy this page if necessary. Part C.

Name of Source: Pla

Plant 2 Cooling Tower, E-611

Whenever Stripper is maintenance. Does not correspond to a List each hazardous substance released from the source identified above and provide the following information. (For an example, see Table 1 of out of service for particular month. he Release Months of Reporting Requirements for Continuous Releases of Hazardous Substances – A Guide for Facilities and Vessels on Compliance.) occurs once every Released in Previous Year (in lbs. or kg)* Total Quantity 4 years) 18,600 3 days every 4 of Releases (per year) Number years Upper Bound Lower Bound (in lbs. or kg per day)* 0 Normal Range 6,200 7664-41-7 CASRN# Name of Hazardous Substance Ammonia

List each mixture released from the source identified above and provide the following information. (For an example, see Table 2 of Reporting Requirements for Continuous Releases of Hazardous Substances – A Guide for Facilities and Vessels on Compliance.) Normal Range of Normal Range of

(in lbs. or kg per day)* Upper Lower Bound Bound Mixture (in lbs. or kg per day)* Upper Lower Bound Bound Components Percentage Weight CASRN# Components Hazardous Substance Name of Name of Mixture

Months

Total Quantity of Mixture Released

in Previous Year (in lbs. or kg)

of Releases

Number

(per year)

of the

Release

N/A

^{*} Please be sure to include units where appropriate. Also, if the release is a radionuclide, units of curies (CI) are appropriate.



SECTION II:	SOURCE
	INFORMATION

CR-ERNS Number

44607

,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	essary.
Na	me of Source: Plant #1 & #2 Vent / Flare Stack, B-402
1.	Indicate whether the release from this source is either:
	continuous without interruptionX OR routine, anticipated, intermittentX
2.	Identify the activity(ies) that results in the release from this source (e.g., batch process, filling of a storage tank). If malfunction, describe the malfunction and explain why the release from the malfunction should be considered continuous and stable in quantity and rate.*
	Ammonia and urea production.
	Anniona and trea production.
	upper bound is when fined is token down down by provid have to be shut down from plant would have to be shut down to provid legally.
3.	Identify below how you established the pattern of release and calculated release estimates.
	X Past release data Knowledge of the facility/vessel's X Engineering estimate operations and release history
	AP-42 test Best professional judgment Other (explain)

^{*} Note that unanticipated events, such as spills, pipe ruptures, equipment failures, emergency shutdowns, or accidents, do not qualify for reduced reporting under CERCLA section 103(f)(2). Unanticipated events are not incidental to normal operations and, by definition, are not continuous or anticipated, and are not sufficiently predictable or regular to be considered stable in quantity and rate.

SOURCE

INFORMATION

(continued)

CR-ERNS Number

44607

Name of Source: Plant #1 & #2 Vent / Flare Stack, B-402
Part B: Specific Information on the Source For the source identified above, provide the following information. Please provide a SEPARATE sheet for EACH source. Photocopy this page if necessary. AFFECTED MEDIUM. Identify the environmental medium (i.e., air, surface water, soil, or ground water) that is affected by the release from this source. If your source releases hazardous substances to more than one medium (e.g., a wastepile releasing to air and ground water), treat the release to EACH medium as a separate source and complete Section II, Parts A, B, and C, of this format for EACH medium affected.
 AIR X (stack X or a rea) If the medium affected is air, please also specify whether the source is a stack or a ground-based area source. If identified source is a stack, indicate stack height: 200 feet or meters; OR If identified source is an area source (e.g., waste pile, landfill, valves, tank vents, pump seals, fugitive emissions), indicate surface area: square feet or square meters.
O SURFACE WATER
 If the release affects a stream, give the stream order or average flow rate, in cubic feet per second. stream order: or average flow rate: cubic feet/second; OR If the release affects a lake, give the surface area of the lake in acres and the average depth in meters. surface area of lake: acres and average depth of lake: meters.
O SOIL OR GROUND WATER If the release is on or under ground, indicate the distance to the closest water well.
Optional Information
The following information is not required in the final rule; however, such information will assist EPA in evaluating the risks associated with the continuous release. If this information is not provided, EPA will make conservative assumptions about the appropriate values. Please note that the units specified below are suggested units. You may use other units; however, be certain that the units are clearly identified.
 For a stack release to air, provide the following information, if available: Inside diameter 1.3 feet or meters Gas Exit Velocity unknown feet/second or For a release to surface water, provide the following information, if available: Average Velocity feet/second of Surface Water

meters/seconds <u> 100 degrees Fahrenheit,</u>

-Kelvin, or Celsius

Gas Exit Velocity

Gas Temperature

CR-ERNS Number	44607	
SOURCE INFORMATION	(continued)	
SECTION II:		

Part C. Identity and Quantity of Each Hazardous Substance or Mixture Released From Each Source Please provide a SEPARATE sheet for EACH source. Photocopy this page if necessary.

Plant #1 & #2 Vent / Flare Stack, B-402

Name of Source:

List each hazardous substance released from the source identified above and provide the following information. (For an example, see Table 1 of the Release Months of AII Reporting Requirements for Continuous Releases of Hazardous Substances - A Guide for Facilities and Vessels on Compliance.) Released in Previous Year 32,000 * in lbs. or kg)* Total Quantity of Releases (per year) 365 Lower Bound (in lbs. or kg per day)* Normal Range 9 Upper Bound 7664-41-7 CASRN# Name of Hazardous Substance Ammonia List each mixture released from the source identified above and provide the following information. (For an example, see Table 2 of Reporting Requirements for Continuous Releases of Hazardous Substances – A Guide for Facilities and Vessels on Compliance.)

(in lbs. or kg per day)* Normal Range of Upper Lower Bound Bound Mixture (in lbs. or kg per day)* Normal Range of Bound Bound Components Upper Lower Percentage CASRN# Components Hazardous Substance Name of Name of Mixture

Months

Total Quantity of Mixture Released in Previous Year (in lbs. or kg)

Release of the

(per year)

Number

N/A

Please be sure to include units where appropriate. Also, if the release is a radionuclide, units of curies (CI) are appropriate. Flare is down for maintenance as much as 5 days per year. $5 \times 4700 + 360 \times 24 = 32,000$



SECTION II:	SOURCE
	INFORMATION

CR-ERNS	Number
4460)7

necessary.	
Name of Source: Plant #1 & #2 Emergency Flare, B-403	
1. Indicate whether the release from this source is either:	
continuous without interruptionOR routine, anticipated, intermittentX	۹
2. Identify the activity(ies) that results in the release from this source (e.g., batch process, filling of a storage to If malfunction, describe the malfunction and explain why the release from the malfunction should be considered continuous and stable in quantity and rate.*	
Ammonia and urea production.	
Buckle Pin unlos	
3. Identify below how you established the pattern of release and calculated release estimates.	
X Past release data Knowledge of the facility/vessel's X Engineering estimate operations and release history	te
AP-42 test Best professional judgment Other (explain)	
	·

^{*} Note that unanticipated events, such as spills, pipe ruptures, equipment failures, emergency shutdowns, or accidents, do not qualify for reduced reporting under CERCLA section 103(f)(2). Unanticipated events are not incidental to normal operations and, by definition, are not continuous or anticipated, and are not sufficiently predictable or regular to be considered stable in quantity and rate.

SOURCE

INFORMATION

(continued)

CR-ERNS Number

44607

For a release to surface water, provide the

Average Velocity _____feet/second

following information, if available:

of Surface Water

(continued)
Name of Source: Plant #1 & #2 Emergency Flare, B-403
Part B: Specific Information on the Source For the source identified above, provide the following information. Please provide a SEPARATE sheet for EACH source. Photocopy this page if necessary.
AFFECTED MEDIUM. Identify the environmental medium (i.e., air, surface water, soil, or ground water) that is affected by the release from this source. If your source releases hazardous substances to more than one medium (e.g., a wastepile releasing to air and ground water), treat the release to EACH medium as a separate source and complete Section II, Parts A, B, and C, of this format for EACH medium affected.
O AIR X (stack X or area) If the medium affected is air, please also specify whether the source is a stack or a ground-based area source.
If identified source is a stack, indicate stack height: feet or meters; OR
• If identified source is an area source (e.g., waste pile, landfill, valves, tank vents, pump seals, fugitive emissions), indicate surface area: square feet or square meters.
SURFACE WATER (stream, lake, or other) If the release affects any surface water body, give the name of the water body.
• If the release affects a stream, give the stream order or average flow rate, in cubic feet per second.
stream order: or average flow rate: cubic feet/second; OR
• If the release affects a lake, give the surface area of the lake in acres and the average depth in meters.
surface area of lake: acres and average depth of lake: meters.
O SOIL OR GROUND WATER If the release is on or under ground, indicate the distance to the closest water well.
Optional Information
The following information is not required in the final rule; however, such information will assist EPA in evaluating the risks associated with the continuous release. If this information is not provided, EPA will make conservative assumptions about the appropriate values. Please note that the units specified below are

suggested units. You may use other units; however, be certain that the units are clearly identified.

feet or meters

meters/seconds 100 degrees Fahrenheit,

Kelvin, or Celsius

unknown feet/second or

For a stack release to air, provide the following

information, if available:

Inside diameter

Gas Exit Velocity

Gas Temperature

			,					
(2)	SECTION II. SO	SOURCE INFORMATION	MATION			CR-ER	CR-ERNS Number	
	ا (د	(continued)				44	44607	
Pa Pl	Part C. Identity and Quantity of Each Hazardous Substance or Mixture Released Fro Please provide a SEPARATE sheet for EACH source. Photocopy this page if necessary.	Ouantity of Eacl	h Hazardous EACH source	Substance or 2. Photocopy	Mixture Re this page if r	Part C. Identity and Quantity of Each Hazardous Substance or Mixture Released From Each Source Please provide a SEPARATE sheet for EACH source. Photocopy this page if necessary.	ource	
	Name of Source:	Plant #1 & #2 Emergency		Flare, B-403				
J								
	List each hazardous substance released from the source i Reporting Requirements for Continuous Releases of Haz	bstance released from ts for Continuous Rel	the source ident leases of Hazardo	ified above and parts Substances –	provide the follo A Guide for Fa	List each hazardous substance released from the source identified above and provide the following information. (For an example, see Table 1 of Reporting Requirements for Continuous Releases of Hazardous Substances – A Guide for Facilities and Vessels on Compliance.)	n example, see Table 1 or npliance.)	:
···········	Name of Hazardous Substance	nce CASRN#	Normal (in lbs. or k <u>Upper Bound</u>	Normal Range (in lbs. or kg per day)* <u>r Bound Lower Bound</u>	Number of Releases · (per year)	Total Quantity Released in Previous Year (in lbs. o r kg)*	Months of the Release	
	Ammonia	7664-41-7	700	0,	365	44,000	All	
	List each mixture released from the source identified aborequirements for Continuous Releases of Hazardous Su	sed from the source is inuous Releases of Ha	dentified above a	nd provide the forces – A Guide fo	ollowing inform or Facilities and	ist each mixture released from the source identified above and provide the following information. (For an example, see Table 2 of Reporting Requirements for Continuous Releases of Hazardous Substances – A Guide for Facilities and Vessels on Compliance.)	e Table 2 of Reporting	
······································	Ž.	Name of	•	Normal Range of Components	Normal Range of Mixture	ange of	Total Quantity of	

Name of Components

Hazardous
Substance
Name of Mixture
Components

CASRN#
Percentage
Bound Bound

Months of the Release

Total Quantity of Mixture Released in Previous Year

> of Releases (per year)

(in lbs. or kg per day)*
Upper Lower
Bound Bound

Number

(in lbs. or kg)

N/A

Please be sure to include units where appropriate. Also, if the release is a radionuclide, units of curies (CI) are appropriate.

